Union County

2024 ~

Complete

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled **PROVISIONAL** have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

1. System Information

Contact Information

Water System Name: Union County PWSID: 01-90-413

Mailing Address: 500 N. Main Street, Suite 500 Monroe, NC 28112 Ownership: County

Contact Person: Nathan Lindholm Title: Engineer Phone: 980-210-1996 Cell/Mobile: --

Thorie. 900-210-1990 Geri/Mobile. --

Secondary Contact: Aubrey Lofton Phone: 704-296-4241

Mailing Address: Cell/Mobile: --

Distribution System

| Line Type | Size Range (Inches) | Estimated % of lines |
|--------------------|---------------------|----------------------|
| Asbestos Cement | 2-16 | 3.87 % |
| Cast Iron | 2-30 | 0.20 % |
| Ductile Iron | 2-42 | 27.31 % |
| Galvanized Iron | 2 | 0.08 % |
| Other | 2-54 | 3.06 % |
| Polyvinyl Chloride | 2-16 | 65.48 % |

What are the estimated total miles of distribution system lines? 1,232 Miles

How many feet of distribution lines were replaced during 2024? 1,250 Feet

How many feet of new water mains were added during 2024? 378,921 Feet

How many meters were replaced in 2024? 11,959

How old are the oldest meters in this system? 22 Year(s)

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? 5,522

What is this system's finished water storage capacity? 20.5000 Million Gallons

Has water pressure been inadequate in any part of the system since last update? Line breaks that were repaired quickly should not be included. No

The Yadkin WTP raw water intake came online in February 2024, and accounts for a significant portion of the 'other' line type. Union County is expected to replace/upgrade all of its meters to AMI meters in 2025, and the statistic for oldest meters in the system will become out of date. This also accounts for the large number of meter replacements for 2024.

Programs

Does this system have a program to work or flush hydrants? Yes, Annually

Does this system have a valve exercise program? Yes, Annually

Does this system have a cross-connection program? Yes

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Does this system have a program to replace meters? Yes

Does this system have a plumbing retrofit program? No

Does this system have an active water conservation public education program? Yes

Does this system have a leak detection program? No

Hydrants are routinely flushed in isolated and dead-end areas at weekly to quarterly intervals depending on location. The County also initiates hydrant flushing in response to customer complaints about taste/odor, water line and valve repairs, when hydrant inspections from the fire department indicate a need, and any other time the water in the system is suspected to have been contaminated. Additionally, flushing takes place during yearly system disinfectant conversion for the entire system.

Only priority (critical) valves are exercised annually. All other valves are exercised every three years.

On August 1, 2022 (Effective Sept 1, 2022), UC Water's Cross Connection Control Program was adopted, allowing UC Water to require testing and inspect backflow prevention devices, implement an enforcement response plan, and issue penalties for violations.

The County is in the middle of an AMI deployment that is expected to be completed by early 2025. All meters are being replaced or retrofitted depending on their age and condition to conform with the new standards.

Most residences in the County were built post-1980; this fact fulfills the general intent of a plumbing retrofit program.

Since adopting a Water Use Ordinance in 2015 (described under Water Conservation), the County has routinely communicated with customers through bill inserts, social media and email to ensure awareness of restricted water uses and noncompliance penalties. Tips for water conservation are also sent to customers frequently and made available online (www.unionconserves.com). We also conduct conservation outreach at community events and conduct water quality demonstrations at schools and plan to continue expanding such outreach efforts as opportunities become available and staffing allows.

The leak detection program has been suspended since only two leaks have been found in the entire county using acoustic leak detection. It isn't feasible to continue the program at this time due to the cost and time we put into the program, yielding so few leaks.

Water Conservation

What type of rate structure is used? Increasing Block

How much reclaimed water does this system use? 0.0450 MGD For how many connections? 1

Does this system have an interconnection with another system capable of providing water in an emergency? Yes

The County began using an increasing block rate structure in 2001, and the structure changed to be highly punitive at usage >10,000 gal/month in 2008 in response to high usage during the drought of 2007-2009. The high charges above 10,000 gal/month has reduced usage at these tiers significantly since implementation.

On May 4, 2015, the Union County Board of Commissioners adopted a new Water Use Ordinance that limits spray irrigation to a maximum of 3 days per week, year round. The Ordinance also allows for additional water restrictions during times of water shortage including drought and system capacity limitations. The County educates customers about this Ordinance through bill inserts, social media, and participation in local events.

The County has implemented a new program to connect residents with professional irrigation contractors for residential irrigation efficiency evaluations. The program was launched in April 2023.

Many of the upcoming and proposed changes to Union County's programs are driven by our Yadkin River to Rocky River Interbasin Transfer Certificate. Specifically, revisions to our hydrant use and meter replacement programs as well as the new residential irrigation program address aspects of the conservation and drought management plans approved as part of the certificate.

2. Water Use Information

Service Area

Sub-Basin(s) % of Service Population County(s) % of Service Population

Catawba River (03-1) 60 % Union 100 %

Rocky River (18-4) 40 %

What was the year-round population served in 2024? 159,988

Has this system acquired another system since last report? No

Year-round population is calculated as the number of non-zero residential accounts x 2.96 (Union County persons per household, https://www.census.gov/quickfacts/fact/table/unioncountynorthcarolina,US/PST045219)

A shapefile of our utility is currently not available

Water Use by Type

| Type of Use | Metered Connections | Metered Average Use (MGD) | Non-Metered Connections | Non-Metered Estimated Use (MGD) |
|---------------|------------------------|------------------------------|-------------------------|------------------------------------|
| Residential | 59,969 | 9.7680 | 0 | 0.0000 |
| Commercial | 2,711 | 1.5600 | 0 | 0.0000 |
| Industrial | 49 | 0.7810 | 0 | 0.0000 |
| Institutional | 383 | 0.3110 | 0 | 0.0000 |

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? 0.7320 MGD

Union County meters all connections to the system, including temporary connections such as permitted hydrant use.

The County is in the process of revising its bulk water permit and temporary hydrant meter rental programs. The changes will improve cross connection control for authorized hydrant users and are expected to reduce apparent water losses by improving water use accounting for the permit program and reducing theft from hydrants.

The system process water is significantly higher than 2023 with the new Yadkin River WTP online.

Water Sales

| Purchaser | PWSID | Average Daily | | Contract | | Required to comply with water | Pipe Size(s) | Use | |
|--|---------------|---------------|------|----------|------------|-------------------------------------|----------------------|----------|-----------|
| | FWSID | Sold (MGD) | Used | MGD | Expiration | Recurring | use restrictions? | (Inches) | Type |
| Chesterfield County Rural Water Company | 13-20- 003 | 0.0000 | 0 | 0.2880 | | Yes | No | 6 | Emergency |
| Lancaster County Water and Sewer District | 29-20- 001 | 0.0000 | 0 | | | Yes | No | 24,42 | Emergency |
| Monroe | 01-90- 010 | 0.7680 | 126 | 1.9900 | | Yes | No | 8 | Regular |
| Wingate | 01-90- 030 | 0.3070 | 366 | | 2063 | Yes | Yes | 6,8 | Regular |

Wingate's contract provides for all water required by the Town, with no maximum amount listed. Wingate is a co-applicant on Union County's IBT granting transfer from the Yadkin River Basin to the Rocky River Basin.

3. Water Supply Sources

Monthly Withdrawals & Purchases

| | Average Daily Use (MGD) | Max Day Use (MGD) | | Average Daily Use (MGD) | Max Day Use (MGD) | | Average Daily Use (MGD) | Max Day Use (MGD) |
|-----|----------------------------|----------------------|-----|----------------------------|----------------------|-----|----------------------------|----------------------|
| Jan | 13.1007 | 14.4042 | May | 16.4701 | 23.9280 | Sep | 17.5319 | 20.7110 |
| Feb | 14.4051 | 18.3137 | Jun | 20.1116 | 23.9570 | Oct | 19.7589 | 23.0280 |
| Mar | 14.5651 | 18.4630 | Jul | 17.7074 | 22.4060 | Nov | 14.4583 | 18.6360 |
| Apr | 17.1670 | 23.4840 | Aug | 17.3499 | 22.2170 | Dec | 12.8843 | 16.2030 |



Surface Water Sources

| Stream Reso | Reservoir | Average D | aily Withdrawal | Maximum Day Withdrawal (MGD) | Available Raw Water Supply | | Usable On-Stream Raw Water Supply | |
|---------------|--------------|-----------|-----------------|---------------------------------|-------------------------------|-------------|--------------------------------------|--|
| | | MGD | Days Used | | MGD | * Qualifier | Storage (MG) | |
| Pee Dee River | Lake Tillery | 5.2730 | 327 | 11.4700 | 13.0000 | T | 0.0000 | |

^{*} Qualifier: C=Contract Amount, SY20=20-year Safe Yield, SY50=50-year Safe Yield, F=20% of 7Q10 or other instream flow requirement, CUA=Capacity Use Area Permit

Surface Water Sources (continued)

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Drainage Area Year Use Stream Reservoir Metered? Sub-Basin County Offline (sq mi) Туре Yadkin River (18-1) Pee Dee River Lake Tillery 4,600 Yes Stanly Regular

What is this system's off-stream raw water supply storage capacity? 6 Million gallons

Are surface water sources monitored? Yes, Daily

Are you required to maintain minimum flows downstream of its intake or dam? No

Does this system anticipate transferring surface water between river basins? Yes

At the intake the source water pH and NTU is monitored daily. Colilert samples are pulled when we are notified of upstream spills, and PFAS and Algae samples are taken quarterly. The system transfers surface water from the Yadkin to the Rocky River sub-basin, as regulated by the 2017 Interbasin Transfer Certificate.

Water Purchases From Other Systems

| Seller | PWSID | Average Daily | Days Used | Contract | | | Required to comply with water | Pipe Size(s) | Use |
|--|---------------|--------------------|--------------|----------|------------|-----------|-------------------------------|-----------------|-----------|
| Solidi | PWSID | Purchased (MGD) | | MGD | Expiration | Recurring | use restrictions? | (Inches) | Туре |
| Anson County | 03-04- 010 | 1.2221 | 47 | 4.0000 | 2024 | Yes | No | 24 | Regular |
| Catawba River Water Supply Project | 29-20- 002 | 11.4239 | 366 | 20.0000 | | Yes | Yes | 24,42 | Regular |
| Charlotte Water | 01-60- 010 | 0.0000 | 0 | | | Yes | Yes | 12 | Emergency |
| Chesterfield County Rural Water Company | 13-20- 003 | 0.0000 | 0 | 0.2880 | | Yes | No | 6 | Emergency |
| Lancaster County Water and Sewer District | 29-20- 001 | 0.0000 | 0 | 3.0000 | 2025 | No | Yes | 24,42 | Regular |
| Monroe | 01-90- 010 | 0.0000 | 0 | | | Yes | Yes | 8-16 | Emergency |

Regarding purchase from Anson County -- our new Yadkin River Water Treatment Plant was operational as of February 2024 and it offset the water that we purchased from Anson County. We purchased water from Anson County from January-February of 2024 while the plant was still offline.

Water Treatment Plants

| Plant Name | Permitted Capacity (MGD) | Is Raw Water Metered? | Is Finished Water Ouput Metered? | Source |
|-------------------------------|-----------------------------|-----------------------|----------------------------------|---------------|
| Catawba River WTP (1/2 Union) | 40.0000 | Yes | Yes | Catawba River |
| Yadkin WTP | 13.0000 | Yes | Yes | Pee Dee River |

Did average daily water production exceed 80% of approved plant capacity for five consecutive days during 2024? Yes

If yes, was any water conservation implemented? Yes

Did average daily water production exceed 90% of approved plant capacity for five consecutive days during 2024? No

If yes, was any water conservation implemented? Yes

Are peak day demands expected to exceed the water treatment plant capacity in the next 10 years? No

The County practices year-round conservation, requiring all customers to irrigate a maximum of 3 days per week regardless of drought status.

The County has received an IBT Certificate for a new water supply from Lake Tillery on the Yadkin River in May 2017. The new water treatment plant came online in February 2024.

The capacity at the Catawba River Water Treatment Plant was successfully expanded from 36mgd to 40mgd in 2021. The County and its Joint Venture partner LCWSD intend to expand the facility again in the late 2020s.

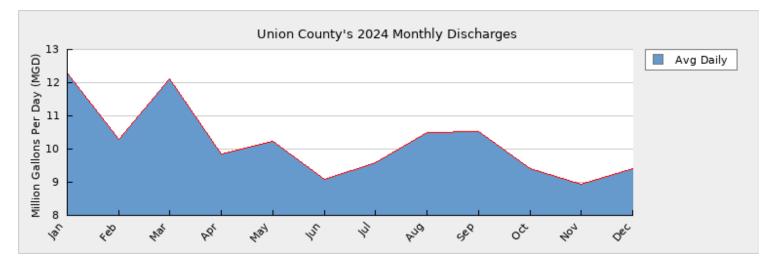
The County also has a Water Use Ordinance that can be implemented during capacity constraints if needed."

4. Wastewater Information

Monthly Discharges

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| | Average Daily Discharge (MGD) Average Daily Discharge (MGD) | | | | Average Daily Discharge (MGD) |
|-----|---|-----|---------|-----|----------------------------------|
| Jan | 12.2810 | May | 10.2400 | Sep | 10.5310 |
| Feb | 10.2880 | Jun | 9.0800 | Oct | 9.4060 |
| Mar | 12.1110 | Jul | 9.5740 | Nov | 8.9270 |
| Apr | 9.8670 | Aug | 10.5050 | Dec | 9.4120 |



How many sewer connections does this system have? 43,730

How many water service connections with septic systems does this system have? 13,811

Are there plans to build or expand wastewater treatment facilities in the next 10 years? Yes

Construction for Grassy Branch WRF and 12 Mile Creek WRF will be beginning in late 2024. Capacity for 12 Mile Creek WRF will go up from 7.5MGD to 9.0 MGD, current anticipated construction completion date June 2027. Capacity for Grassy Branch WRF will go up from 0.05MGD to 0.12MGD per the negotiated Special Order of Consent, current anticipated construction completion date is December 2025.

Wastewater Permits

| Permit Number | Туре | Permitted Capacity (MGD) | Design Capacity (MGD) | Average Annual Daily Discharge (MGD) | Maximum Day Discharge (MGD) | Receiving Stream | Receiving Basin |
|------------------|------|--------------------------------|-----------------------------|--|-----------------------------------|-----------------------------|-------------------------|
| NC0069523 | WWTP | 0.0500 | 0.0500 | 0.0220 | 0.1130 | Clear Creek | Rocky River (18-4) |
| NC0069841 | WWTP | 1.9000 | 1.9000 | 1.1340 | 2.8950 | North Fork Crooked Creek | Rocky River (18- 4) |
| NC0085359 | WWTP | 12.0000 | 7.5000 | 5.4070 | 9.9300 | Twelve Mile Creek | Catawba River (03-1) |
| NC0085812 | WWTP | 0.0500 | 0.0500 | 0.0460 | 0.3360 | Crooked Creek | Rocky River (18-4) |

Construction began in 2024 for expansion of Twelve Mile Creek WRF to 9MGD capacity.

Union County worked with the state on design and constraints for Special Orders by Consent (SOC) related to ongoing inflow and infiltration issues leading to exceeded capacity on permit NC0085812 (Grassy Branch WRF). The SOC was approved by Union County Board of County Commissioners on April 4th, 2022. Construction began in late 2024 to expand Grassy Branch WRF capacity from 0.05 MGD to 0.12 MGD.

Union County also has a land application system at the Olde Sycamore WRF, permit number WQ0011928. The permitted capacity of the facility is 0.150MGD, with the AADD measuring 0.045MGD and the MDD measuring 0.094MGD for 2024.

Wastewater Interconnections

| Charlotte Water | 01-60-010 | Discharging | 2.0020 | 366 | 3.0000 |
|-----------------|-----------|-------------|---------|--------------|---------------|
| water System | 1 44010 | Туре | MGD | Davs Used | Maximum (MGD) |
| Water System | PWSID | Type | Average | Daily Amount | Contract |

| Lancaster County, S.C. | 29-20-001 | Discharging | 0.0120 | 366 | 0.0250 |
|------------------------|-----------|-------------|--------|-----|--------|
| Monroe | 01-90-010 | Discharging | 1.4540 | 366 | 2.6500 |
| Marshville | 01-90-015 | Receiving | 0.2000 | 366 | 0.3760 |
| Wingate | 01-90-030 | Receiving | 0.3160 | 366 | 0.7500 |

On April 12, 1996, Union County and the City of Charlotte entered into an agreement for Charlotte to provide up to 3 million gallons of allocated wastewater capacity to the County from the McAlpine Creek Wastewater Treatment Plant. This contract is perpetual in duration.

Our wastewater interconnect data actually does in fact indicate that the Wastewater discharge from Union County to Monroe was 1.454 MGD over 366 days, which is similar to discharges from previous years.

5. Planning

Projections

| 2024 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---------|--|--|--|--|--|
| 159,988 | 183,364 | 212,063 | 248,500 | 290,165 | 345,515 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| 9.7680 | 12.8360 | 14.8440 | 17.3950 | 20.3120 | 24.1860 |
| 1.5600 | 1.8740 | 2.7960 | 3.9780 | 5.6310 | 6.8650 |
| 0.7810 | 1.3540 | 2.1250 | 2.9290 | 4.0360 | 4.9200 |
| 0.3110 | 0.4160 | 0.5590 | 0.7230 | 1.0320 | 1.2590 |
| 0.7320 | 1.1450 | 1.5380 | 1.9890 | 2.5810 | 3.1460 |
| 2.5686 | 3.4370 | 4.2632 | 5.2679 | 6.5506 | 7.8735 |
| | 159,988 0 9.7680 1.5600 0.7810 0.3110 0.7320 | 159,988 183,364 0 0 9.7680 12.8360 1.5600 1.8740 0.7810 1.3540 0.3110 0.4160 0.7320 1.1450 | 159,988 183,364 212,063 0 0 0 9.7680 12.8360 14.8440 1.5600 1.8740 2.7960 0.7810 1.3540 2.1250 0.3110 0.4160 0.5590 0.7320 1.1450 1.5380 | 159,988 183,364 212,063 248,500 0 0 0 0 9.7680 12.8360 14.8440 17.3950 1.5600 1.8740 2.7960 3.9780 0.7810 1.3540 2.1250 2.9290 0.3110 0.4160 0.5590 0.7230 0.7320 1.1450 1.5380 1.9890 | 159,988 183,364 212,063 248,500 290,165 0 0 0 0 0 9.7680 12.8360 14.8440 17.3950 20.3120 1.5600 1.8740 2.7960 3.9780 5.6310 0.7810 1.3540 2.1250 2.9290 4.0360 0.3110 0.4160 0.5590 0.7230 1.0320 0.7320 1.1450 1.5380 1.9890 2.5810 |

The average day demand projections were developed by Union County's 2024 CWWMP by Brown and Caldwell. Population projections were calculated from average day demand projections, taking into account the percentage of residential usage in Union County's system, and the average residential gallons per capita day factor of 70.

Future Water Sales

| DWSID | | Contract | | Dina Siza(a) (Inches) | Hao Turo | |
|-----------|-------------------------------------|--|--|---|---|--|
| PWSID | MGD | Year Begin | Year End | Pipe Size(s) (iliches) | Use Type | |
| 01-90-030 | 0.0400 | 2030 | | 6, 8 | Regular | |
| 01-90-030 | 0.0800 | 2040 | | 6, 8 | Regular | |
| 01-90-030 | 0.1000 | 2050 | | 6, 8 | Regular | |
| 01-90-030 | 0.1100 | 2060 | | 6, 8 | Regular | |
| 01-90-030 | 0.1300 | 2070 | | 6, 8 | Regular | |
| | 01-90-030 01-90-030 01-90-030 | 01-90-030 0.0400 01-90-030 0.0800 01-90-030 0.1000 01-90-030 0.1100 | PWSID MGD Year Begin 01-90-030 0.0400 2030 01-90-030 0.0800 2040 01-90-030 0.1000 2050 01-90-030 0.1100 2060 | PWSID MGD Year Begin Year End 01-90-030 0.0400 2030 01-90-030 0.0800 2040 01-90-030 0.1000 2050 01-90-030 0.1100 2060 | PWSID MGD Year Begin Year End Pipe Size(s) (Inches) 01-90-030 0.0400 2030 6, 8 01-90-030 0.0800 2040 6, 8 01-90-030 0.1000 2050 6, 8 01-90-030 0.1100 2060 6, 8 | |

Future Supply Sources

| Source Name | PWSID | Source Type | Additional Supply | Year Online | Year Offline | Туре |
|-------------------|-----------|-------------|-------------------|-------------|--------------|---------|
| Catawba River WTP | 29-20-002 | Surface | 8.0000 | 2028 | | Regular |
| Catawba River WTP | 29-20-002 | Surface | 8.0000 | 2039 | | Regular |
| Yadkin River | 01-90-413 | Surface | 12.0000 | 2032 | | Regular |
| Yadkin River | 29-90-413 | Surface | 4.0000 | 2044 | | Regular |

"The County was awarded an Interbasin Transfer certificate to supply a proposed Yadkin River Water Treatment Plant to be located in northeastern Union County in May 2017. The County's IBT Certificate is based on a maximum month average daily demand per the IBT statute at the time when it was developed and approved, whereas the facility designs are for maximum day demand. The calculated ratio between the two measures was approximately 1.22. The County's IBT request of 23 MGD max month corresponds to our projected 2050 demand in the Rocky River Basin Service Area of 28 MGD for max day. The Yadkin River Water Treatment Plant came online in February 2024.

Demand v/s Percent of Supply

| | 2024 | 2030 | 2040 | 2050 | 2060 | 2070 |
|----------------------|---------|---------|---------|---------|---------|---------|
| Surface Water Supply | 13 0000 | 13.0000 | 13.0000 | 13.0000 | 13.0000 | 13.0000 |

| Ground Water Supply | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|------------------------------|---------|---------|---------|---------|---------|---------|
| Purchases | 27.0000 | 24.0000 | 24.0000 | 24.0000 | 24.0000 | 24.0000 |
| Future Supplies | | 8.0000 | 28.0000 | 32.0000 | 32.0000 | 32.0000 |
| Total Available Supply (MGD) | 40.0000 | 45.0000 | 65.0000 | 69.0000 | 69.0000 | 69.0000 |
| Service Area Demand | 15.7206 | 21.0620 | 26.1252 | 32.2819 | 40.1426 | 48.2495 |
| Sales | 0.5714 | 2.2970 | 2.2970 | 2.2970 | 2.2970 | 2.2970 |
| Future Sales | | 0.0400 | 0.1200 | 0.2200 | 0.3300 | 0.4600 |
| Total Demand (MGD) | 16.2920 | 23.3990 | 28.5422 | 34.7989 | 42.7696 | 51.0065 |
| Demand as Percent of Supply | 41% | 52% | 44% | 50% | 62% | 74% |



The purpose of the above chart is to show a general indication of how the long-term per capita water demand changes over time. The per capita water demand may actually be different than indicated due to seasonal populations and the accuracy of data submitted. Water systems that have calculated long-term per capita water demand based on a methodology that produces different results may submit their information in the notes field.

Your long-term water demand is 61 gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. conduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered elsewhere in your plan, indicate where the practices are discussed here. Union County utilizes an increasing block rate structure. Future per capita demands will be evaluated annually and addressed as needed.

In Spring 2017, Union County initiated a new water conservation messaging campaign to target customers through regular bill inserts, social media, and website education to reduce per capita water consumption.

The County is currently implementing an Advanced Metering Infrastructure (AMI) program and new customer portal to give customers near real-time access to usage and leak alerts.

Are there other demand management practices you will implement to reduce your future supply needs? On May 4, 2015 the Board of County Commissioners adopted a Water Use Ordinance that limits spray irrigation to a maximum of 3 days per week year round and allows increased restrictions in response to drought or approaching available treatment capacity. This is to help bring down the peaking factor and push out when new supply is needed."

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs?

How does the water system intend to implement the demand management and supply planning components above?

Additional Information

Has this system participated in regional water supply or water use planning? Yes, Union County Water has participated in the Catawba-Wateree Drought Management Advisory Group, the Catawba-Wateree Water Management Group, and the Yadkin-Pee Dee Water Management Group

What major water supply reports or studies were used for planning? The Yadkin River Water Supply Project Inter-Basin Transfer permitting process started in 2013, Environmental Impact Statement submitted in early 2015 and finalized in early 2016, and the 2024 Comprehensive Water and Wastewater Master Plan.

Please describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ability to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance issues:

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